Directions: Determine whether the following are functions, if they are functions determine if they are linear.

1. 2.

3. 3x – 4y2 = 5 4.

Directions: Determine the x and y intercepts of the following:

5. 6.

7.

8. What does it mean to have a slope of a line? **(Do not just copy a definition out of a book)**

9. Describe what each variable in the following formula represents.

y = mx + b

10. Describe what each variable in the following formula represents.

Ax + By = C

Directions: Determine the slope of a line given the following.

11. 12.

Slope:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Slope:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

13. 14.

15. (4,1) , (9,-3) 16. ( -7, -11) , ( -5, -15)

Directions: Determine the unknown variable from the given information.

17. (5, y ) , ( -4, 10) 18. (2, 1) , (x, -15)

19. (3, 8) , (5, y) 20. slope (5, 1) (x, 9)

Directions: Write the following Equations in Slope-Intercept form then graph the line only using the slope and intercept.

21. 22.



Directions: Graph the following using x and y intercepts.

23. 24.

